



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Liming Tsau

Appl. No.: 10/750,834

Filed: January 5, 2004

For: **High Density Metal Capacitor
Using Via Etch Stopping Layer as
Field Dielectric in Dual-
Damascence Interconnect Process**

Confirmation No.: 2507

Art Unit: 2823

Examiner: Khiem D. Nguyen

Atty. Docket: 1875.0230001

Request for Corrected Official Filing Receipt

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

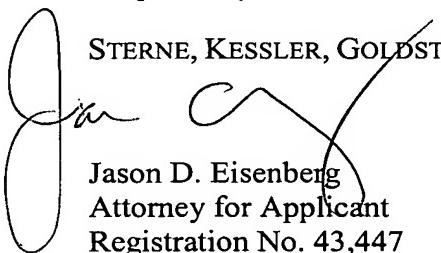
Attn: Office of Initial Patent
Examination's Filing
Receipt Corrections

Sir:

Applicant hereby requests that a corrected Official Filing Receipt be issued and sent to the undersigned representative. Specifically, the following corrections to the Official Filing Receipt are requested: **Under "Power of Attorney" delete Keith Aurzada -- 43477 and insert "The patent practitioners associated with Customer Number 49579".** In support of the above request, a photocopy of the instant Official Filing Receipt is enclosed with the corrections noted in red. It is requested that a corrected Official Filing Receipt be issued, and sent to the undersigned at the earliest possible time.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Jason D. Eisenberg
Attorney for Applicant
Registration No. 43,447

Date: 6/1/05

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402635_1.DOC



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/750,834	01/05/2004	2823	770	1875.0230001	5	4	1

CONFIRMATION NO. 2507

26111
STERNE, KESSLER, GOLDSTEIN & FOX PLLC
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

UPDATED FILING RECEIPT



OC000000013679380

Date Mailed: 09/03/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Liming Tsau, Irvine, CA;

Assignment For Published Patent Application

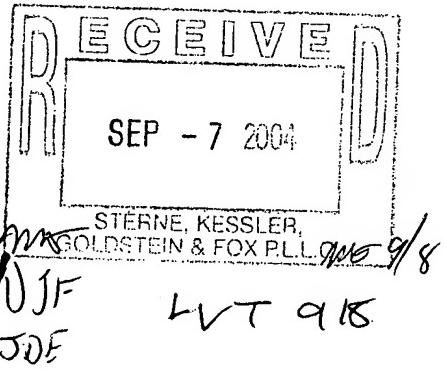
Broadcom Corporation

Power of Attorney:

Keith Aurzada 43477 - The patent practitioners associated
with customer number 49579.

Domestic Priority data as claimed by applicant

This application is a CON of 09/753,664 01/04/2001



Foreign Applications

If Required, Foreign Filing License Granted: 04/08/2004

The number of your priority application, to be used for filing abroad under the Paris Convention is,
US10/750,834

Projected Publication Date: 12/09/2004

Non-Publication Request: No

Early Publication Request: No

Title

High density metal capacitor using via etch stopping layer as field dielectric in dual-damascence interconnect process

Preliminary Class

438

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



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Federal Agencies

June 1, 2005

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Art Unit 2823
Office of Initial Patent Examination's
Filing Receipt Corrections

Re: U.S. Utility Patent Application
Application No. 10/750,834; Filed: January 5, 2004
For: **High Density Metal Capacitor Using Via Etch Stopping Layer as Field Dielectric in Dual-Damascence Interconnect Process**

Inventor: Liming Tsau
Our Ref: 1875.0230001

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Request for Corrected Official Filing Receipt;
2. A photocopy of the Official Filing Receipt with corrections noted in red;
3. A Supplemental Application Data Sheet;
4. An original executed Power of From Assignee;
5. A copy of the Statement Under 37 C.F.R. 3.73(b) as filed in U.S. Appl. No. 09/753,664, with copy of Assignment attached; and
6. One (1) return postcard.

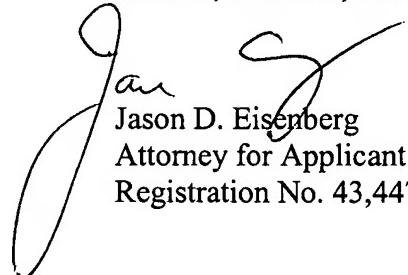
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
June 1, 2005
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency,
or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Jason D. Eisenberg
Attorney for Applicant
Registration No. 43,447

JDE/lvt
402625_1.DOC



SUPPLEMENTAL APPLICATION DATA SHEET

Electronic Version v14
Stylesheet Version v14.0

Title of Invention	High Density Metal Capacitor Using Via Etch Stopping Layer as Field Dielectric in Dual-Damascence Interconnect Process
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Application Type: regular, utility

Attorney Docket Number: 1875.0230001/JDE

Correspondence address:

Customer Number:	26111	*26111*
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Continuing Data:

This is a Continuation of US application number 09/753,664, filed 2001-01-04.

Inventor Information:

Inventor 1:

Applicant Authority Type: Inventor

Citizenship: CN

Given Name: Liming

Family Name: Tsau

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State of Residence: CA

Country of Residence: US

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Postal Code of Mailing Address: 92606

Country of Mailing Address: US

Phone:

Fax:

E-mail:

Attorney Information:

Name	Registration Number
Jason D. Eisenberg	43,477 43,447

POWER OF ATTORNEY FROM ASSIGNEE

Broadcom Corporation, a corporation of California, having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-3616, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on December 29, 2000, of an invention known as High Density Metal Capacitor Using Via Etch Stopping Layer as Field Dielectric in Dual-Damascence Interconnect Process (Attorney Docket No. 1875.0230001), that is disclosed and claimed in a patent application of the same title by the inventor Liming Tsau (said application filed on January 5, 2004 at the U.S. Patent and Trademark Office, having Application Number 10/750,834).

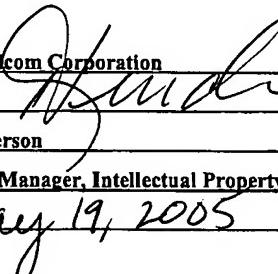
For the purpose of PAIR, the Customer Number is **26111**.

The Assignee hereby appoints the U.S. attorneys associated with CUSTOMER NUMBER 49579 to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith. The Assignee hereby grants said attorneys associated with Customer Number 49579 the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

Customer Number 26111
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Broadcom Corporation
SIGNATURE: 
BY: Dee Henderson
TITLE: Senior Manager, Intellectual Property Administration
DATE: May 19, 2005

Certificate Under 37 C.F.R. § 3.73(b)



Applicant/Patent Owner: Liming Tsau

Application No./Patent No.: 09/753,664

Filed/Issue Date: January 4, 2001

Entitled: **High Density Metal Capacitor Using Via Etch Stopping Layer as Field Dielectric in Dual-Damascence Interconnect Process**

Broadcom Corporation

(Name of Assignee)

corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest, or
2. an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 011420, Frame 0610, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: April 13, 2001

Name: William Ruehle

Title: Vice President & CFO

Signature: W. J. Ruehle

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor: Liming Tsau, the undersigned inventor hereby sell and assign to Broadcom Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) for the United States of America (as defined in 35 U.S.C. § 100),
 and throughout the world,

(a) in the invention known as High Density Metal Capacitor Using Via Etch Stopping Layer as Field Dielectric in Dual-Damascene Interconnect Process for which application for patent in the United States of America has been executed by the undersigned on Dec. 29, 2000 (also known as United States Application No. to be assigned, filed herewith), in any and all applications thereon, in any and all Letters Patent(s) therefor, and *Sale 174/01*

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl,

Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:

12/29/2006

Signature of Inventor:



Liming Tsau